

GP-300969

MAXIMUM TORQUE-PER-AMPERE CONTROL
OF A SATURATED SURFACE-MOUNTED
PERMANENT MAGNET MACHINE

ABSTRACT OF THE DISCLOSURE

An electric motor control system including a stator for producing a magnetic field, a surface mount permanent magnet rotor rotated by the magnetic field, a motor shaft coupled to the rotor, power electronics for
5 controlling the magnetic field in the stator, and where the power electronics controls the q-axis and d-axis current components for the electric motor.

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